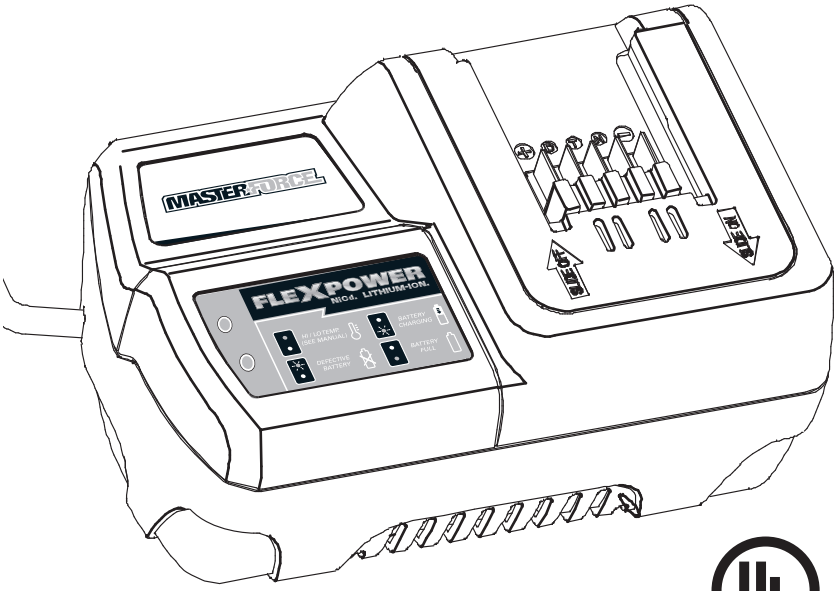
Operator's Manual
18V Universal Charger
252-8036



IMPORTANT :

⚠**WARNING!** To reduce the risk of injury, user must read instruction manual.

⚠ Safety symbols in this manual are used to flag possible dangers. The safety symbols and their explanations require your full understanding. The safety warnings do not, by themselves, eliminate any danger, nor are they substitute for proper accident prevention measures.

⚠ This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions. .

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INTRODUCTION

SAVE THESE INSTRUCTIONS!

This charger has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

SAFETY SYMBOLS

The purpose of safety symbols is to attract you attention to possible dangers.

The safety symbols, and the explanations with them, deserve your careful attention and understanding. The symbol warnings do not by themselves eliminate any danger. The instructions and warning they give are no substitutes for proper accident prevention measures.

⚠**WARNING!** Be sure to read and understand all safety instructions in this manual, including all safety alert symbols such as **"DANGER," "WARNING,"** and **"CAUTION"** before using this tool. Failure to following all instructions listed below may result in electric shock, fire and/or serious personal injury.

⚠**WARNING! To ensure safety and reliability, all repairs should be performed by a qualified service technician at MASTERFOECE Service Center.**

SYMBOL	SIGNAL	MEANING
	DANGER!	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING!	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION!	Indicates a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury.
	NOTE:	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

	⚠**WARNING!** The operation of any power tools can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shield and a full face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

SAVE THESE INSTRUCTIONS

SAFETY INSTRUCTIONS

IMPORTANT SAFETY RULES

⚠**WARNING!** For Indoor use only.

⚠**WARNING!** Dry location use only.

⚠**WARNING!** Risk of fire and electric shock.

⚠**WARNING!** Risk of injury.

⚠**WARNING! Charg only Masterforce 252-8024, 252-8028, and 252-8032 rechargeable battery packs. Other types of battery pack may burst causing injury to persons and damage.**

GENRAL SAFETY RULES

⚠**WARNING!** Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury.

Save all warnings and instructions for future reference.

The term power tool in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) WORK AREA SAFETY

- ✓ **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- ✓ **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- ✓ **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

- ✓ **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- ✓ **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- ✓ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- ✓ **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

- ✓ **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- ✓ **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) SERVICE

- ✓ **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

SAFETY RULES FOR CHARGER

⚠**WARNING!** Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- ✓ Before using the battery charger, read all instructions and cautionary markings in this manual and on the battery charger, the battery, and the product using the battery to prevent misuse of the products and possible injury or damage.

⚠**CAUTION!** To reduce the risk of electric shock or damage to the charger and battery, charge only those rechargeable batteries specifically designated on your charger's label. Other types of batteries may burst, causing personal injury or damage.

- ✓ Do not use the charger outdoors or expose it to wet or damp conditions. Water entering the charger will increase the risk of electric shock.
- ✓ Use of an attachment not recommended or sold by the battery-charger manufacturer may result in a risk of fire, electric shock or injury to persons.
- ✓ Do not abuse the cord or charger. Never use the cord to carry the charger. Do not pull the charger cord to disconnect the plug from receptacle. Damage to the cord or charger could occur and create an electric shock hazard. Replace damaged cords immediately.
- ✓ Make sure that the cord is located so that it will not be stepped on, tripped over, come in contact with sharp edges or moving parts, or otherwise subjected to damage or stress. This will reduce the risk of accidental falls, which could cause injury and damage to the cord, which could then result in electric shock.
- ✓ Keep the cord and charger from heat to prevent damage to the housing or internal parts.
- ✓ Do not allow gasoline, oils, petroleum-based products, etc. to come in contact with plastic parts. These materials contain chemicals that can damage, weaken, or destroy plastic.

- ✓ An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure that:

  The pins on plug of extension cord are the same number, size and shape as those of the plug on charger.

  The cord is properly wired and in good electrical condition

  The size is large enough for AC ampere rating of charger as specified below:

The Cord Length (Feet)	25′	50′	100′
Cord Size (AWG)	6	16	16

  NOTE: AWG = American Wire Gauge

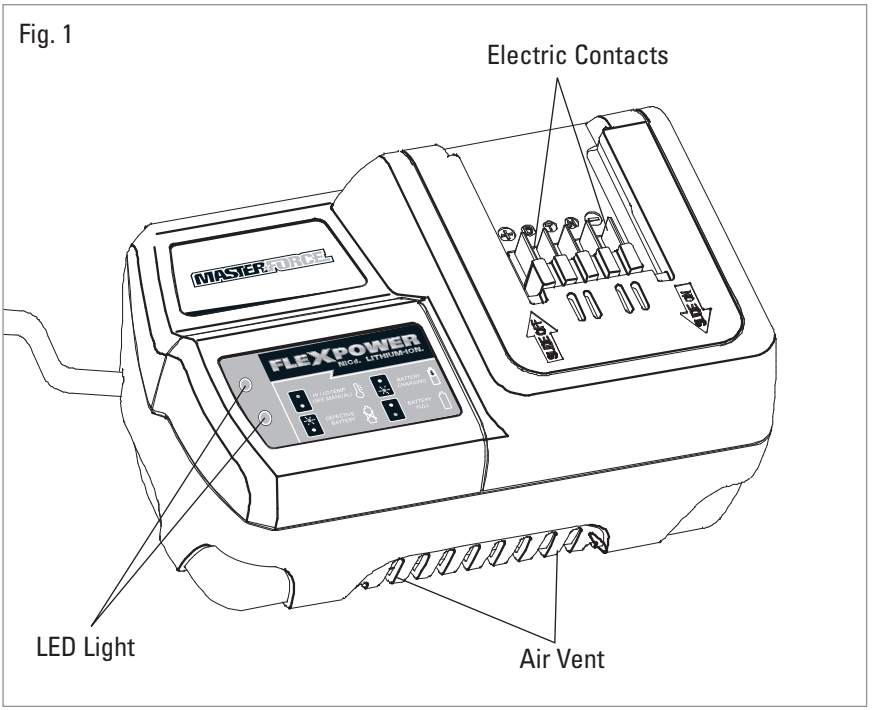
- ✓ Do not operate the charger with a damaged cord or plug, which could cause shorting and electric shock. If damaged, have the charger repaired or replaced by an authorized service technician at MASTERFORCE Service Center.
- ✓ Do not operate the charger if it has received a sharp blow, been dropped, or has otherwise been damaged in any way. Take it to an authorized service technician at MASTERFORCE Service Center for an electrical check to determine if the charger is in good working order.
- ✓ Do not disassemble the charger. Take it to an authorized service technician at a MASTERFORCE Service Center when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- ✓ Unplug the charger from the electrical outlet before attempting any maintenance or cleaning to reduce the risk of electric shock.
- ✓ Disconnect charger from the power supply when not in use. This will reduce the risk of electric shock or damage to the charger if metal items should fall into the opening. It will also help prevent damage to the charger during a power surge.
- ✓ Risk of electric shock. Do not touch the uninsulated portion of output connector or uninsulated battery terminal.
- ✓ Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you lend this tool to someone else, also lend these instructions to them to prevent misuse of the product and possible injury.

DESCRIPTION

KNOW YOUR CHARGER (Fig. 1)

⚠ **WARNING!** The safe use of this product requires an understanding of the information on the tool and in this operator's manual as well as knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

Fig. 1



PRODUCT SPECIFICATION	
Charger Input	120-Volts, 60Hz AC only
Charging Adaptor Output	18V DC
Charging time	45-75 minutes (depend on the type)
Charger Weight	1LBS 3OZ
Optimum charging temperature	41°F (5°C) -122°F (50°C) for lithium-ion battery
	41°F (5°C) -104°F (40°C) for NiCad battery

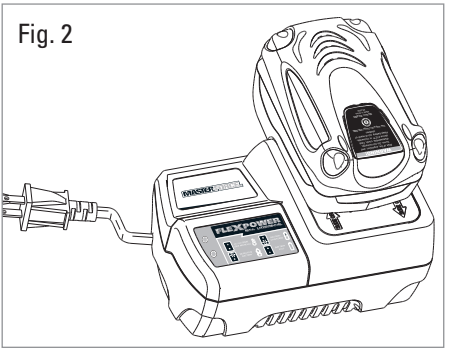
OPERATION

HOW TO CHARGE THE BATTERY PACK (Fig.2)

NOTE: The battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack.

A fully discharged battery pack will charge about 45-75 minutes (depend on the type) in a desired surrounding temperature.

Fig. 2



1. Charge the battery pack with the correct charger.
2. Connect the charger to a power supply.
3. Attach the battery pack to the charger by aligning the raised ribs of the battery pack with the slot in the charger. Slide the battery pack onto the charger (Fig. 2)
4. The Charger will communicate with the battery pack's circuitry to evaluate the condition of the battery pack.
5. The green LED light will be flash continuously during normal charging.
6. After charging is complete, the green LED on the charger will be on and the power indicator LED lights will go off. The power indicator LED lights will not be displayed when the power indicator button is pressed while the battery pack is on the Charger.
7. The battery pack will fully charge, but will not overcharge, if left on the Charger.

LED FUNCTIONS OF CHARGER (Fig. 3)

LED INDICATOR	BATTERY PACK	RED LED	GREEN LED	ACTION
HI / LO TEMP.	Hot/Cold battery	On	Off	Fast charge will begin when battery returns to 41°F (5°C) and 122°F (50°C)
DEFECTIVE BATTERY	Defective	Flashing	Off	Battery pack or charger is defetive
BATTERY CHARGING	Charging	Off	Flashing	Charging
BATTERY FULL	Fully charged	Off	On	Charging is complete

CHARGING A HOT BATTERY PACK

If the battery pack is above normal temperature range, the red LED will be lit and the green LED will be off. When the battery pack cools down to approximately 122°F(104°F for NiCad battery), the charger will automatically begin charging.

CHARGING A COLD BATTERY PACK

If the battery pack is below the normal temperature range, the red LED will be lit and the green LED will be off. When the battery warms to a temperature of more than 41°F, the charger will automatically begin charging.

DEFECTIVE BATTERY

If the charger detects a problem, the red LED will begin flashing and the green LED will be off.

- ✓ If defective, remove and reinsert the battery pack in the charger. If the LED status reads the "defective" a second time, try charging a different battery pack.
- ✓ If a different battery pack charges normally, dispose of the defective battery pack (see maintenance section).
- ✓ If a different battery pack also indicates "defective," the charger may be defective.

BATTERY CHARGING

If the battery pack is within normal temperature range, the green LED will begin flashing and the red LED will be off.

BATTERY FULL

After fully charged, the green LED Light on the charger will be on and the red LED light will be off.

NOTE: The battery pack will fully charge, but will not overcharge, if left on the charger.

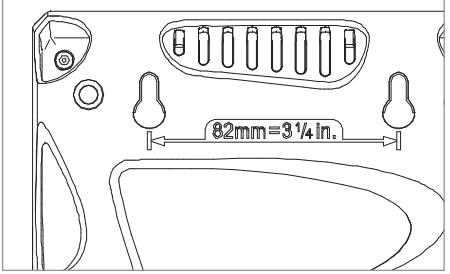
NOTE: Charger may warm with several continuous charge cycles. This is part of the normal operation of the charge. Charge in a well ventilated area.

WALL-MOUNT HOLES (Fig.4)

The charger has hanging holes for convenient storage. Install screws in the wall 3-1/4 inches apart.

Use screws sufficiently strong to hold the combined weight of the charger and battery pack.

Fig. 4



MAINTENANCE

⚠ **WARNING!** Always wear safety goggles or safety glasses with side shields when using compressed air to clean tool. If the operation is dusty, also wear a dust mask.

⚠ **WARNING!** To avoid serious personal injury, always remove the battery pack from the tool when cleaning or performing any maintenance.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

⚠ **WARNING!** Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc. come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

⚠ **WARNING!** When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician at Authorized Service Center.

BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLNG

To preserve natural resources, please recycle or dispose of batteries properly. This product use lithium-ion or Ni-Cd batteries. Local, state or federal laws may prohibit disposal of lithium-ion batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

⚠ **WARNING!** Upon removal, cover the battery pack's terminals with heavy-duty adhesive tape. Do not attempt to destroy or disassemble battery pack or remove any of its components. Battery must be recycled or disposed o f properly. Also, never touch both terminals with metal objects and/or body parts as short circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

WARRANTY

If, during normal use, this MASTERFORCE™ power tool breaks or fails due to a defect in material or workmanship within three years from the date of original purchase, simply bring this tool and its sales receipt back to your nearest Menards® retail store for a free equivalent replacement within those three years.

The warranty:

(1) excludes expendable parts including but not limited to blades, bits, light bulbs, and/or batteries;

(2) shall be void if this tool is used for commercial or/and rental purposes; and

(3) does not cover any losses, injuries to persons/properties, or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state.

*SAVE YOUR RECEIPTS. Your warranty is void without them. For help, please call to our customer center, toll free number: 1-866-917-4374.